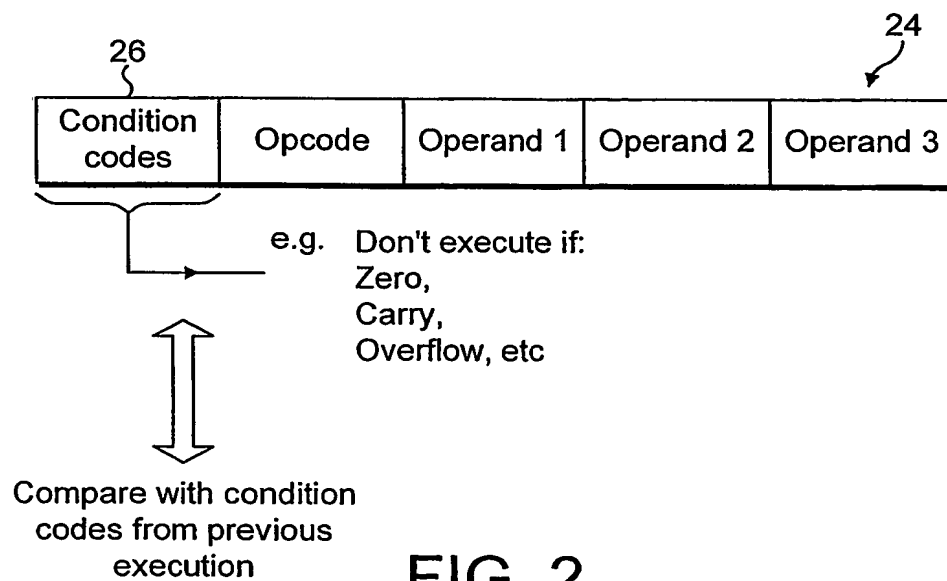
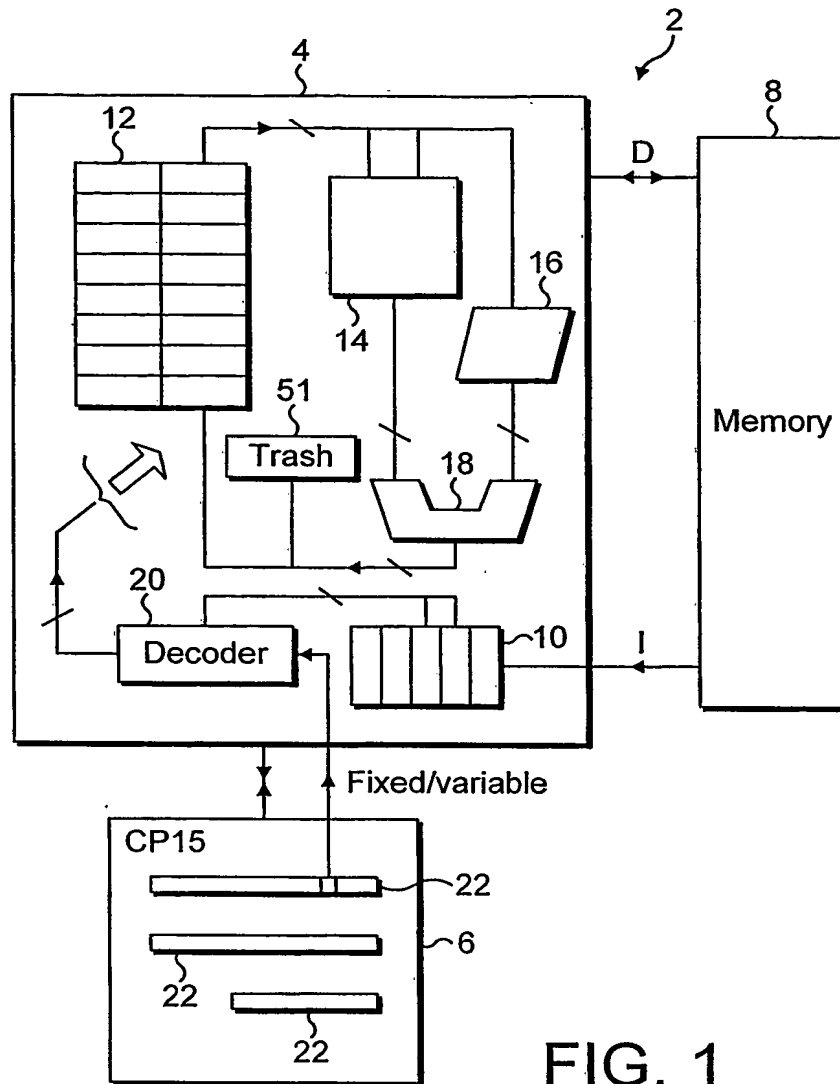


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Conditional branch
in fixed timing

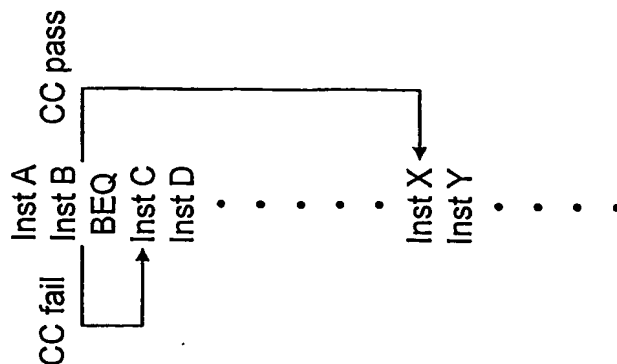
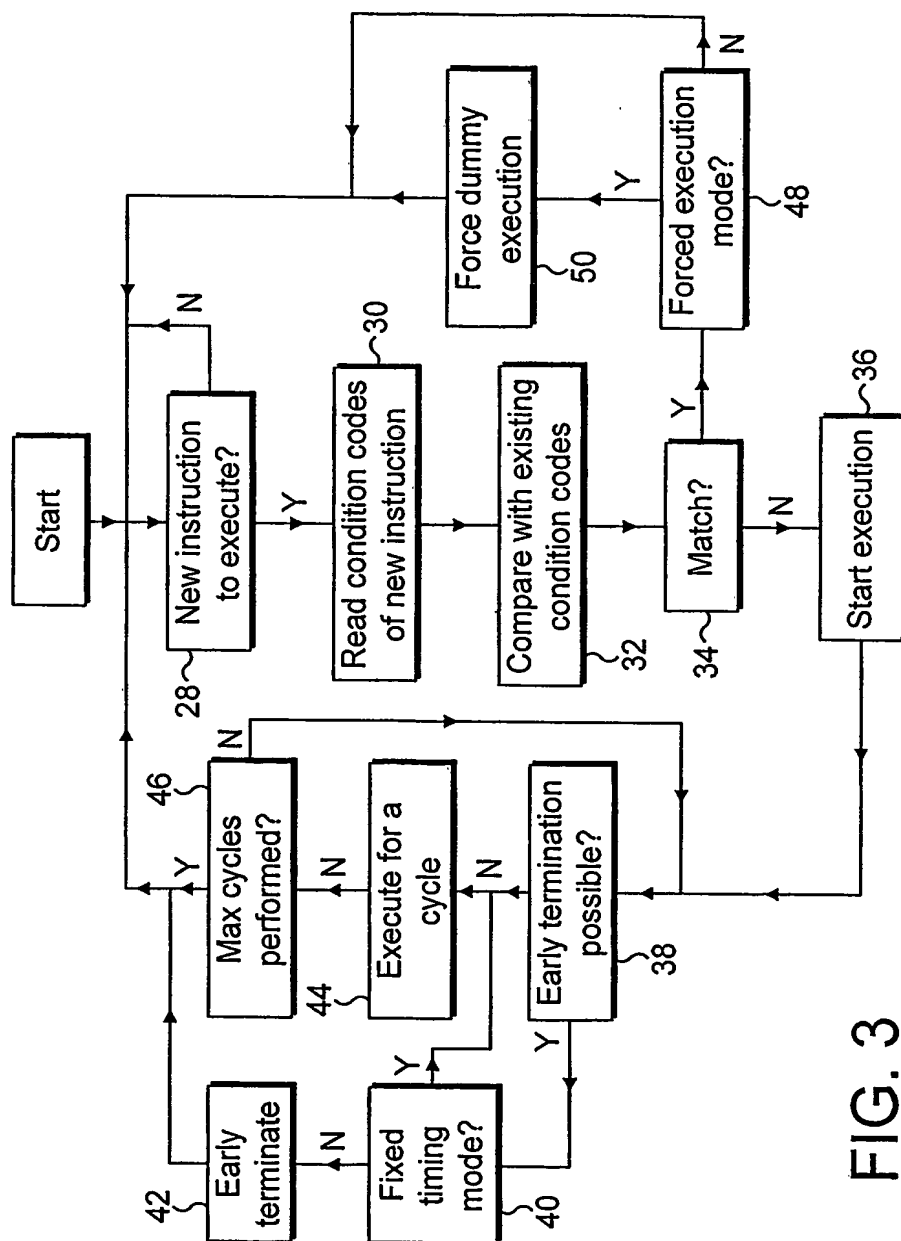


FIG. 4



3
G.
F

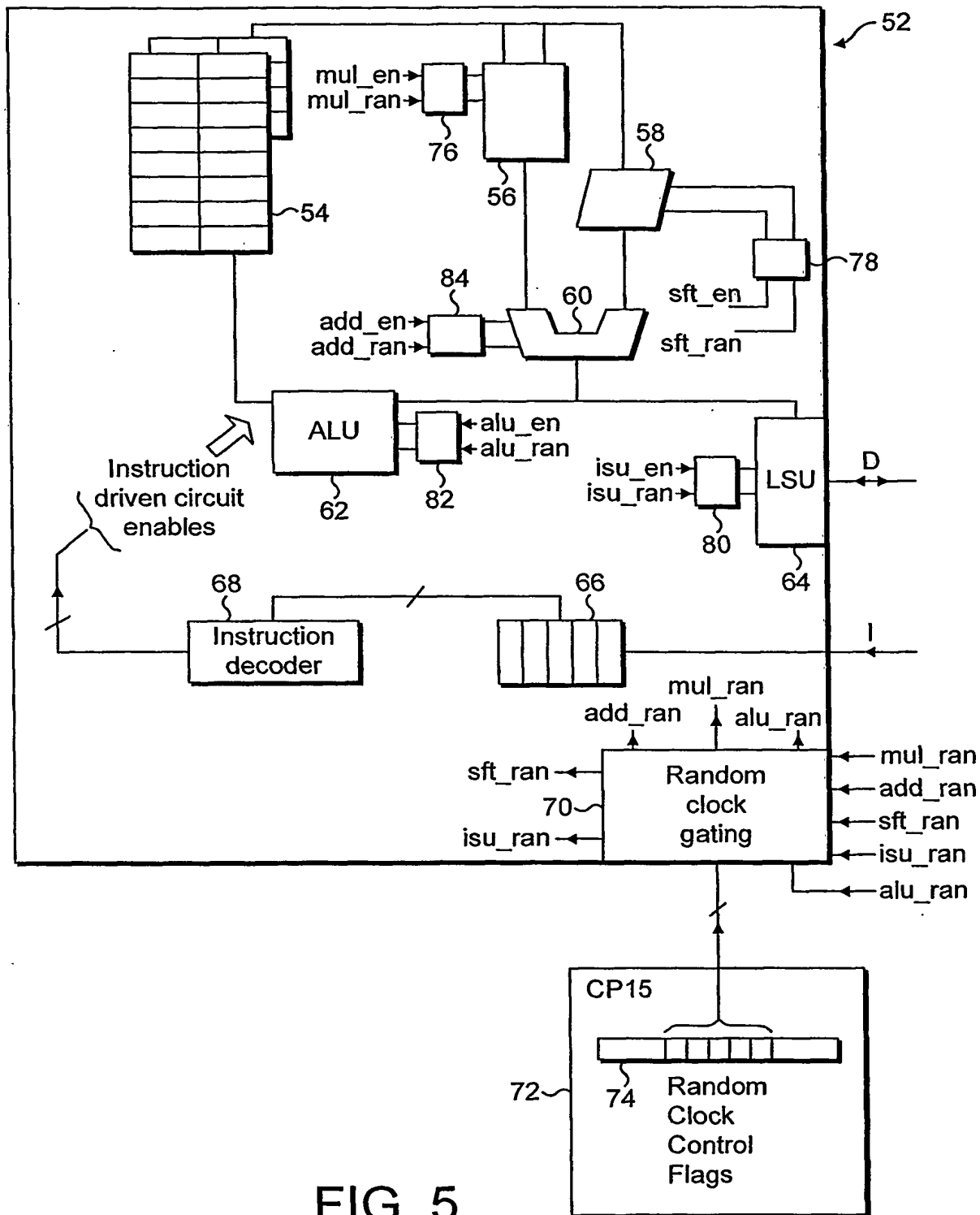


FIG. 5

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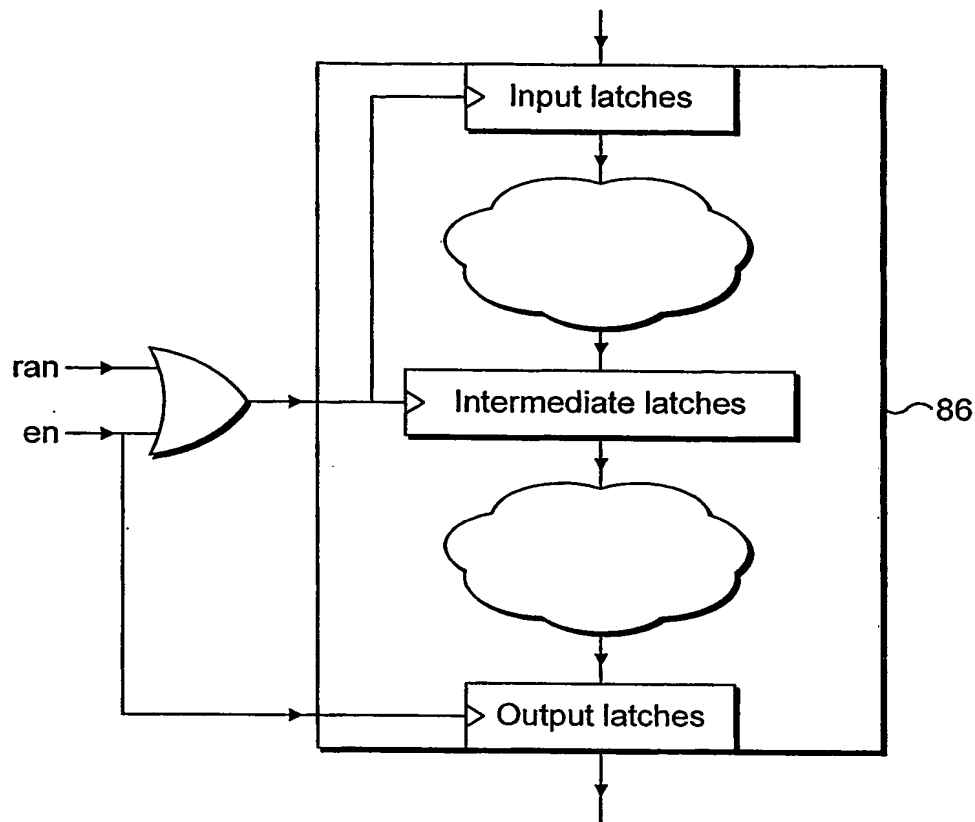


FIG. 6

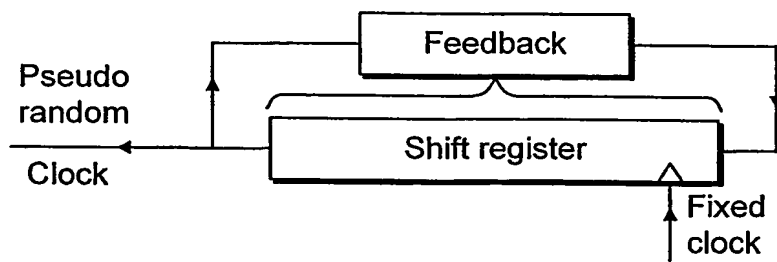


FIG. 7

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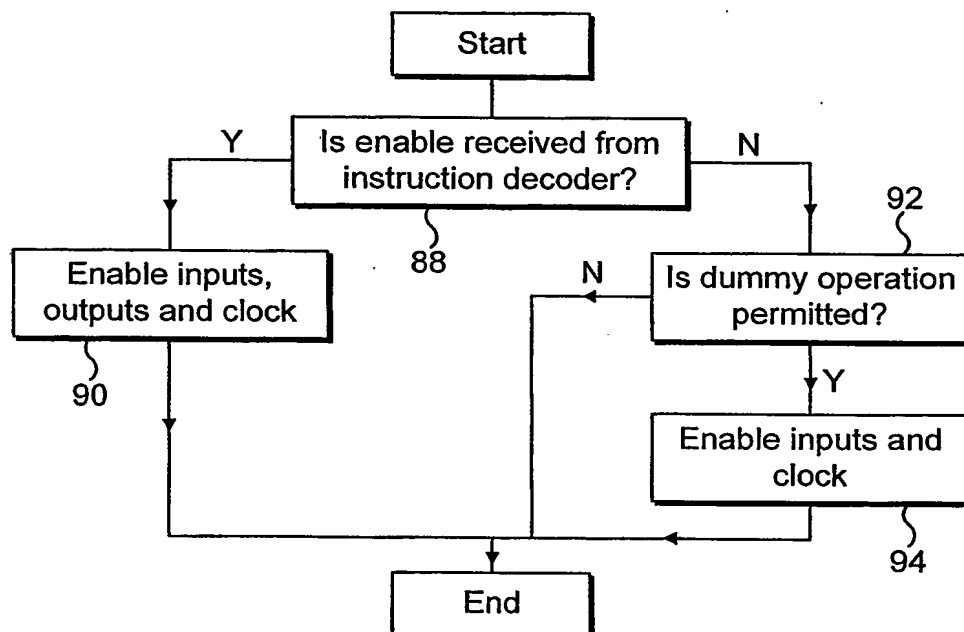


FIG. 8

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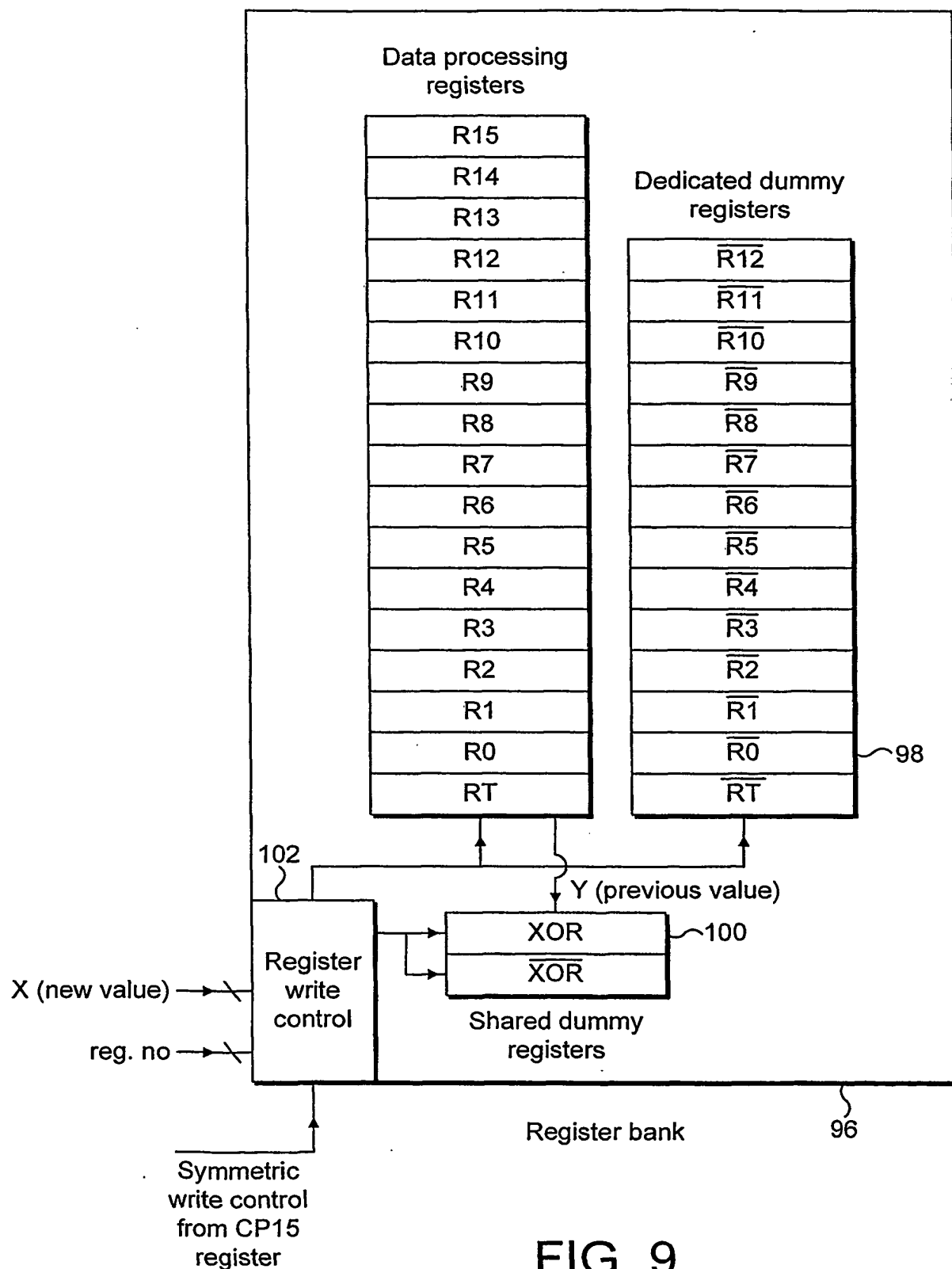


FIG. 9

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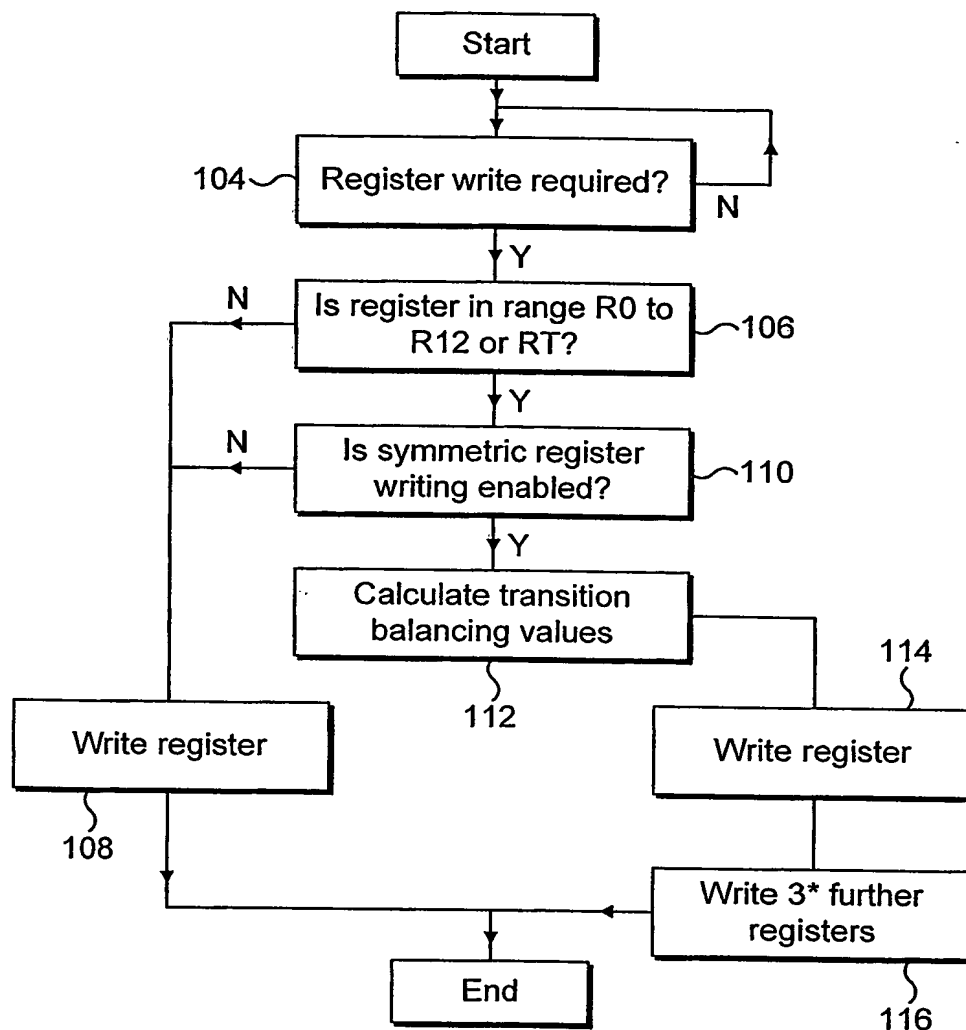


FIG. 10

Rn[i]t Rn[i]t+1		$\overline{Rn[i]t}$ $\overline{Rn[i]t+1}$	Rd[i]t	$\overline{Rd[i]t+1}$ $\overline{Rd[i]t}$ $\overline{Rd[i]t+1}$	Transitions			
					Rn	\overline{Rn}	Rd	\overline{Rd}
0	0	1	1	0	1	0	1	0
0	0	1	1	1	0	1	0	1
0	1	1	0	0	1	1	1	1
0	1	1	0	1	0	1	0	1
1	0	0	1	0	1	0	1	0
1	0	0	1	1	0	1	0	1
1	1	0	0	0	1	1	1	1
1	1	0	0	1	0	1	0	1

$$Rd[i]t+1 = (\overline{Rn[i]t} \text{ XOR } \overline{Rn[i]t+1}) \text{ XOR } Rd[i]t$$

FIG. 11

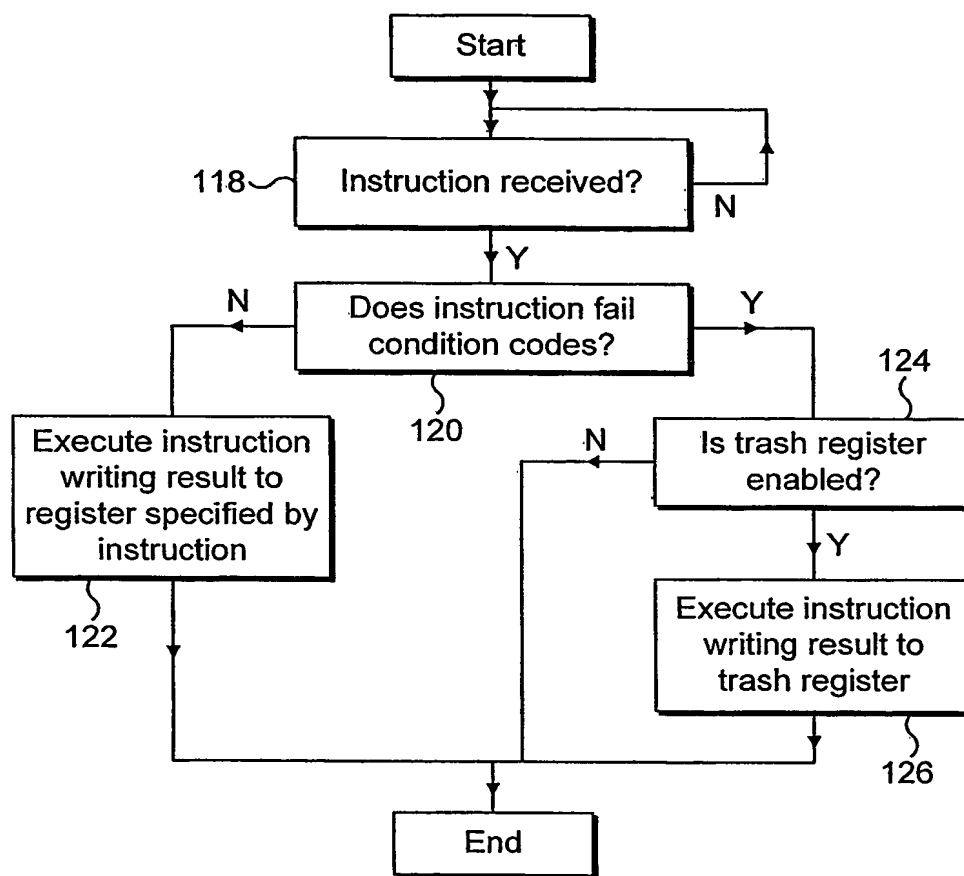


FIG. 12

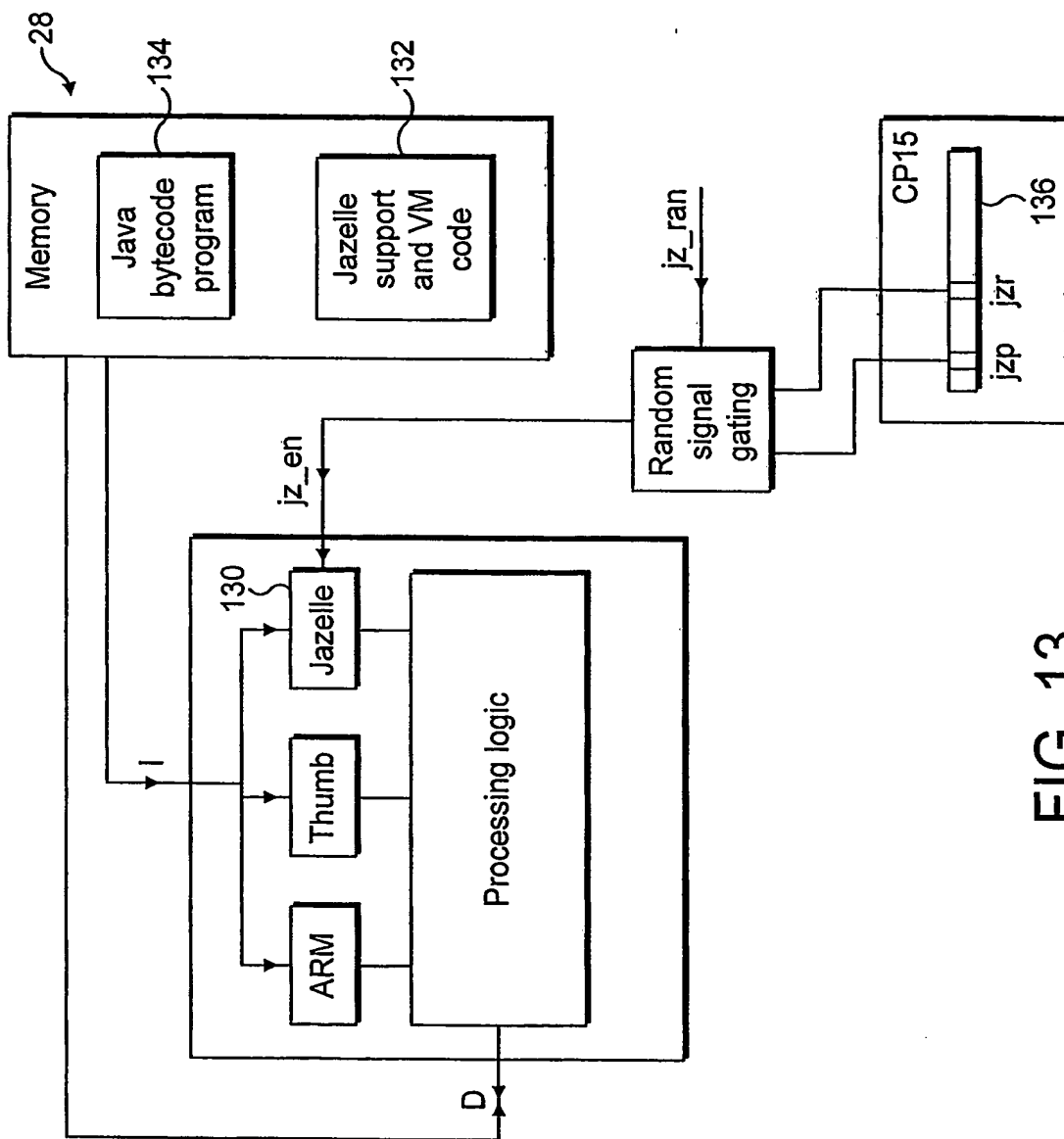


FIG. 13

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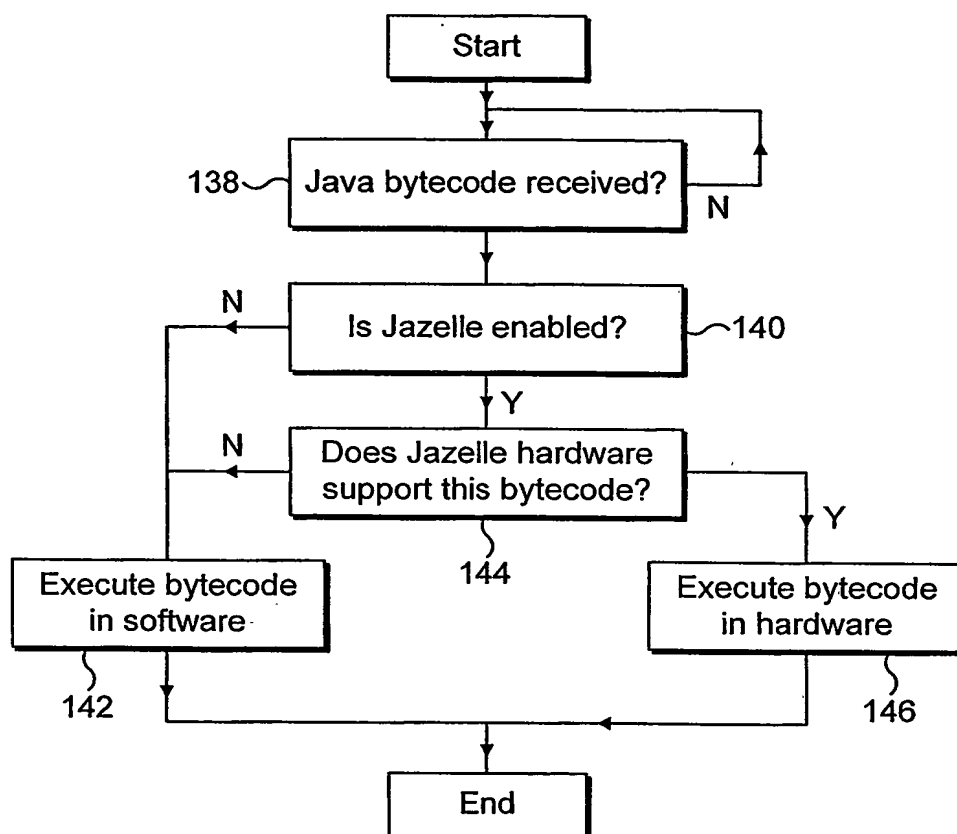


FIG. 14